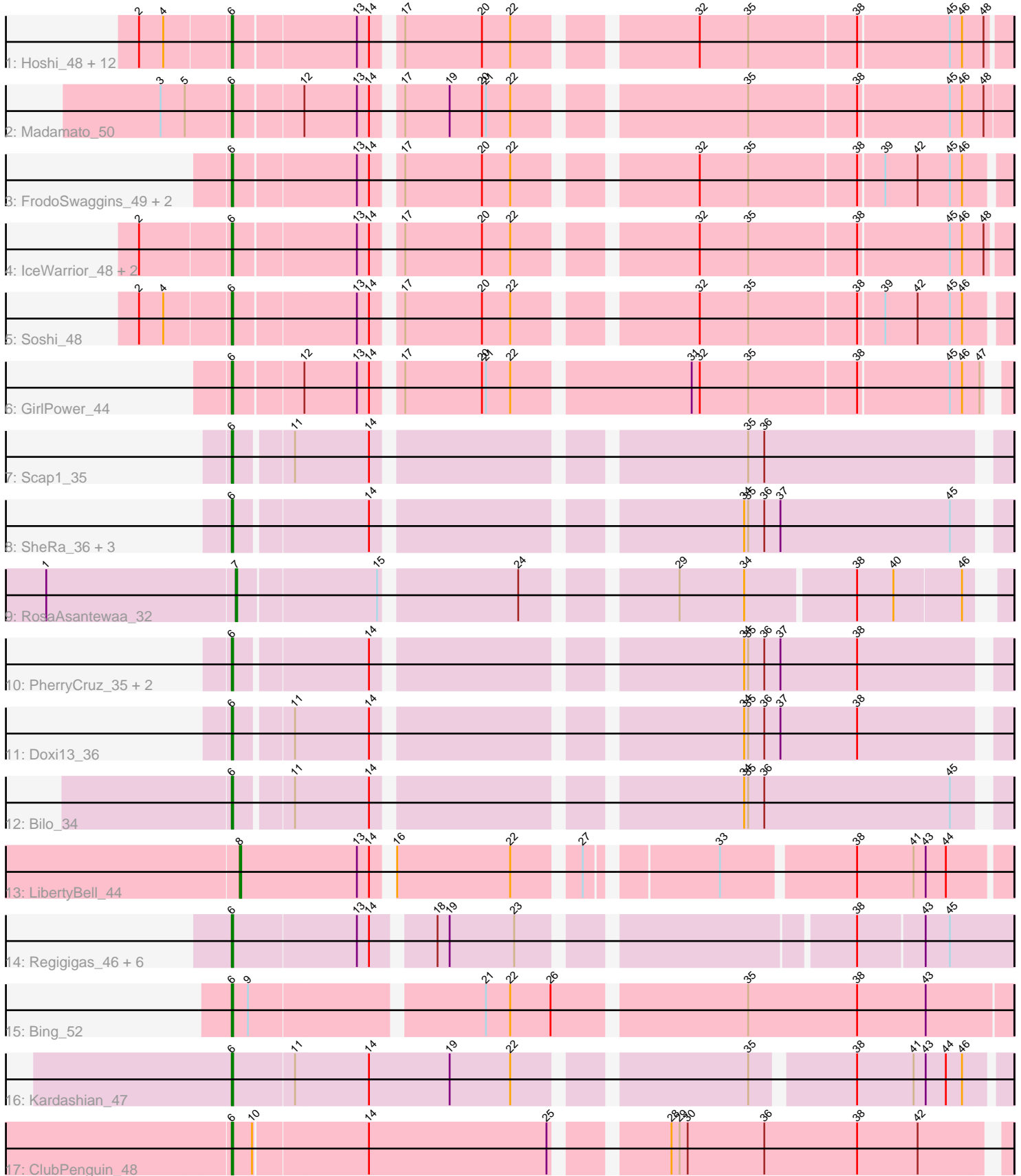


Pham 159264



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 159264 Report

This analysis was run 04/28/24 on database version 559.

Pham number 159264 has 44 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Hoshi_48, Rima_50, OlympicHelado_49, Spectropatronm_49, TieDye_48, Indigenous_49, Esketit_49, Meibysrarus_47, Namu_50, FidgetOrca_49, TonyStarch_48, Jaylociraptor_49, Maya_49
- Track 2 : Madamato_50
- Track 3 : FrodoSwaggins_49, Popy_49, DrGrey_48
- Track 4 : IceWarrior_48, CherryBlossom_49, TaidaOne_49
- Track 5 : Soshi_48
- Track 6 : GirlPower_44
- Track 7 : Scap1_35
- Track 8 : SheRa_36, Moozy_35, Annihilus_36, HotFries_35
- Track 9 : RosaAsantewaa_32
- Track 10 : PherryCruz_35, GoblinVoyage_36, RavenPuff_35
- Track 11 : Doxi13_36
- Track 12 : Bilo_34
- Track 13 : LibertyBell_44
- Track 14 : Regigigas_46, Rainydai_44, FromIndy_45, Miek_44, Thiqqums_45, CricKo_45, SendItCS_43
- Track 15 : Bing_52
- Track 16 : Kardashian_47
- Track 17 : ClubPenguin_48

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 6, it was called in 40 of the 42 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Annihilus_36, Bilo_34, Bing_52, CherryBlossom_49, ClubPenguin_48, CricKo_45, Doxi13_36, DrGrey_48, Esketit_49, FidgetOrca_49, FrodoSwaggins_49, FromIndy_45, GirlPower_44, GoblinVoyage_36, Hoshi_48, HotFries_35, IceWarrior_48, Indigenous_49, Jaylociraptor_49, Kardashian_47, Madamato_50, Maya_49, Meibysrarus_47, Miek_44, Moozy_35, Namu_50, OlympicHelado_49, PherryCruz_35, Popy_49, Rainydai_44, RavenPuff_35, Regigigas_46, Rima_50, Scap1_35, SendItCS_43, SheRa_36, Soshi_48, Spectropatronm_49, TaidaOne_49,

Thiqqums_45, TieDye_48, TonyStarch_48,

Genes that have the "Most Annotated" start but do not call it:

-

Genes that do not have the "Most Annotated" start:

- LibertyBell_44, RosaAsantewaa_32,

Summary by start number:

Start 6:

- Found in 42 of 44 (95.5%) of genes in pham
- Manual Annotations of this start: 40 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Annihilus_36 (BI2), Bilo_34 (BI2), Bing_52 (BI5), CherryBlossom_49 (BI1), ClubPenguin_48 (BI7), CricKo_45 (BI4), Doxi13_36 (BI2), DrGrey_48 (BI1), Esketit_49 (BI1), FidgetOrca_49 (BI1), FrodoSwaggins_49 (BI1), FromIndy_45 (BI4), GirlPower_44 (BI1), GoblinVoyage_36 (BI2), Hoshi_48 (BI1), HotFries_35 (BI2), IceWarrior_48 (BI1), Indigenous_49 (BI1), Jaylociraptor_49 (BI1), Kardashian_47 (BI6), Madamato_50 (BI1), Maya_49 (BI1), Meibysrarus_47 (BI1), Miek_44 (BI4), Moozy_35 (BI2), Namu_50 (BI1), OlympicHelado_49 (BI1), PherryCruz_35 (BI2), Popy_49 (BI1), Rainydai_44 (BI4), RavenPuff_35 (BI2), Regigigas_46 (BI4), Rima_50 (BI1), Scap1_35 (BI2), SendItCS_43 (BI4), SheRa_36 (BI2), Soshi_48 (BI1), Spectropatronm_49 (BI1), TaidaOne_49 (BI1), Thiqqums_45 (BI4), TieDye_48 (BI1), TonyStarch_48 (BI1),

Start 7:

- Found in 1 of 44 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RosaAsantewaa_32 (BI2),

Start 8:

- Found in 1 of 44 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LibertyBell_44 (BI3),

Summary by clusters:

There are 7 clusters represented in this pham: BI6, BI7, BI4, BI5, BI2, BI3, BI1,

Info for manual annotations of cluster BI1:

- Start number 6 was manually annotated 22 times for cluster BI1.

Info for manual annotations of cluster BI2:

- Start number 6 was manually annotated 10 times for cluster BI2.
- Start number 7 was manually annotated 1 time for cluster BI2.

Info for manual annotations of cluster BI3:

- Start number 8 was manually annotated 1 time for cluster BI3.

Info for manual annotations of cluster BI4:

- Start number 6 was manually annotated 5 times for cluster BI4.

Info for manual annotations of cluster BI5:

- Start number 6 was manually annotated 1 time for cluster BI5.

Info for manual annotations of cluster BI6:

- Start number 6 was manually annotated 1 time for cluster BI6.

Info for manual annotations of cluster BI7:

- Start number 6 was manually annotated 1 time for cluster BI7.

Gene Information:

Gene: Annihilus_36 Start: 26356, Stop: 26877, Start Num: 6

Candidate Starts for Annihilus_36:

(Start: 6 @26356 has 40 MA's), (14, 26449), (34, 26692), (35, 26695), (36, 26707), (37, 26719), (45, 26845),

Gene: Bilo_34 Start: 26468, Stop: 26989, Start Num: 6

Candidate Starts for Bilo_34:

(Start: 6 @26468 has 40 MA's), (11, 26507), (14, 26561), (34, 26804), (35, 26807), (36, 26819), (45, 26957),

Gene: Bing_52 Start: 33497, Stop: 34048, Start Num: 6

Candidate Starts for Bing_52:

(Start: 6 @33497 has 40 MA's), (9, 33509), (21, 33671), (22, 33689), (26, 33719), (35, 33854), (38, 33935), (43, 33986),

Gene: CherryBlossom_49 Start: 32728, Stop: 33255, Start Num: 6

Candidate Starts for CherryBlossom_49:

(2, 32665), (Start: 6 @32728 has 40 MA's), (13, 32815), (14, 32824), (17, 32839), (20, 32896), (22, 32917), (32, 33034), (35, 33070), (38, 33148), (45, 33214), (46, 33223), (48, 33238),

Gene: ClubPenguin_48 Start: 32048, Stop: 32584, Start Num: 6

Candidate Starts for ClubPenguin_48:

(Start: 6 @32048 has 40 MA's), (10, 32063), (14, 32144), (25, 32276), (28, 32345), (29, 32351), (30, 32357), (36, 32414), (38, 32483), (42, 32528),

Gene: CricKo_45 Start: 30767, Stop: 31297, Start Num: 6

Candidate Starts for CricKo_45:

(Start: 6 @30767 has 40 MA's), (13, 30857), (14, 30866), (18, 30905), (19, 30914), (23, 30962), (38, 31184), (43, 31232), (45, 31250),

Gene: Doxi13_36 Start: 26330, Stop: 26851, Start Num: 6

Candidate Starts for Doxi13_36:

(Start: 6 @26330 has 40 MA's), (11, 26369), (14, 26423), (34, 26666), (35, 26669), (36, 26681), (37, 26693), (38, 26750),

Gene: DrGrey_48 Start: 33096, Stop: 33620, Start Num: 6

Candidate Starts for DrGrey_48:

(Start: 6 @33096 has 40 MA's), (13, 33183), (14, 33192), (17, 33207), (20, 33264), (22, 33285), (32, 33402), (35, 33438), (38, 33516), (39, 33534), (42, 33558), (45, 33582), (46, 33591),

Gene: Esketit_49 Start: 32839, Stop: 33366, Start Num: 6

Candidate Starts for Esketit_49:

(2, 32776), (4, 32794), (Start: 6 @32839 has 40 MA's), (13, 32926), (14, 32935), (17, 32950), (20, 33007), (22, 33028), (32, 33145), (35, 33181), (38, 33259), (45, 33325), (46, 33334), (48, 33349),

Gene: FidgetOrca_49 Start: 32832, Stop: 33359, Start Num: 6

Candidate Starts for FidgetOrca_49:

(2, 32769), (4, 32787), (Start: 6 @32832 has 40 MA's), (13, 32919), (14, 32928), (17, 32943), (20, 33000), (22, 33021), (32, 33138), (35, 33174), (38, 33252), (45, 33318), (46, 33327), (48, 33342),

Gene: FrodoSwaggins_49 Start: 33490, Stop: 34014, Start Num: 6

Candidate Starts for FrodoSwaggins_49:

(Start: 6 @33490 has 40 MA's), (13, 33577), (14, 33586), (17, 33601), (20, 33658), (22, 33679), (32, 33796), (35, 33832), (38, 33910), (39, 33928), (42, 33952), (45, 33976), (46, 33985),

Gene: FromIndy_45 Start: 30371, Stop: 30901, Start Num: 6

Candidate Starts for FromIndy_45:

(Start: 6 @30371 has 40 MA's), (13, 30461), (14, 30470), (18, 30509), (19, 30518), (23, 30566), (38, 30788), (43, 30836), (45, 30854),

Gene: GirlPower_44 Start: 33290, Stop: 33820, Start Num: 6

Candidate Starts for GirlPower_44:

(Start: 6 @33290 has 40 MA's), (12, 33338), (13, 33377), (14, 33386), (17, 33401), (20, 33458), (21, 33461), (22, 33479), (31, 33602), (32, 33608), (35, 33644), (38, 33722), (45, 33788), (46, 33797), (47, 33809),

Gene: GoblinVoyage_36 Start: 26330, Stop: 26851, Start Num: 6

Candidate Starts for GoblinVoyage_36:

(Start: 6 @26330 has 40 MA's), (14, 26423), (34, 26666), (35, 26669), (36, 26681), (37, 26693), (38, 26750),

Gene: Hoshi_48 Start: 32436, Stop: 32963, Start Num: 6

Candidate Starts for Hoshi_48:

(2, 32373), (4, 32391), (Start: 6 @32436 has 40 MA's), (13, 32523), (14, 32532), (17, 32547), (20, 32604), (22, 32625), (32, 32742), (35, 32778), (38, 32856), (45, 32922), (46, 32931), (48, 32946),

Gene: HotFries_35 Start: 26374, Stop: 26895, Start Num: 6

Candidate Starts for HotFries_35:

(Start: 6 @26374 has 40 MA's), (14, 26467), (34, 26710), (35, 26713), (36, 26725), (37, 26737), (45, 26863),

Gene: IceWarrior_48 Start: 32518, Stop: 33045, Start Num: 6

Candidate Starts for IceWarrior_48:

(2, 32455), (Start: 6 @32518 has 40 MA's), (13, 32605), (14, 32614), (17, 32629), (20, 32686), (22, 32707), (32, 32824), (35, 32860), (38, 32938), (45, 33004), (46, 33013), (48, 33028),

Gene: Indigenous_49 Start: 32833, Stop: 33360, Start Num: 6

Candidate Starts for Indigenous_49:

(2, 32770), (4, 32788), (Start: 6 @32833 has 40 MA's), (13, 32920), (14, 32929), (17, 32944), (20, 33001), (22, 33022), (32, 33139), (35, 33175), (38, 33253), (45, 33319), (46, 33328), (48, 33343),

Gene: Jaylociraptor_49 Start: 32832, Stop: 33359, Start Num: 6

Candidate Starts for Jaylociraptor_49:

(2, 32769), (4, 32787), (Start: 6 @32832 has 40 MA's), (13, 32919), (14, 32928), (17, 32943), (20, 33000), (22, 33021), (32, 33138), (35, 33174), (38, 33252), (45, 33318), (46, 33327), (48, 33342),

Gene: Kardashian_47 Start: 32934, Stop: 33467, Start Num: 6

Candidate Starts for Kardashian_47:

(Start: 6 @32934 has 40 MA's), (11, 32979), (14, 33033), (19, 33093), (22, 33138), (35, 33291), (38, 33360), (41, 33402), (43, 33411), (44, 33426), (46, 33438),

Gene: LibertyBell_44 Start: 30077, Stop: 30595, Start Num: 8

Candidate Starts for LibertyBell_44:

(Start: 8 @30077 has 1 MA's), (13, 30164), (14, 30173), (16, 30182), (22, 30266), (27, 30308), (33, 30392), (38, 30485), (41, 30527), (43, 30536), (44, 30551),

Gene: Madamoto_50 Start: 32898, Stop: 33428, Start Num: 6

Candidate Starts for Madamoto_50:

(3, 32847), (5, 32865), (Start: 6 @32898 has 40 MA's), (12, 32946), (13, 32985), (14, 32994), (17, 33009), (19, 33042), (20, 33066), (21, 33069), (22, 33087), (35, 33240), (38, 33318), (45, 33384), (46, 33393), (48, 33408),

Gene: Maya_49 Start: 32846, Stop: 33373, Start Num: 6

Candidate Starts for Maya_49:

(2, 32783), (4, 32801), (Start: 6 @32846 has 40 MA's), (13, 32933), (14, 32942), (17, 32957), (20, 33014), (22, 33035), (32, 33152), (35, 33188), (38, 33266), (45, 33332), (46, 33341), (48, 33356),

Gene: Meibysrurus_47 Start: 32209, Stop: 32736, Start Num: 6

Candidate Starts for Meibysrurus_47:

(2, 32146), (4, 32164), (Start: 6 @32209 has 40 MA's), (13, 32296), (14, 32305), (17, 32320), (20, 32377), (22, 32398), (32, 32515), (35, 32551), (38, 32629), (45, 32695), (46, 32704), (48, 32719),

Gene: Miek_44 Start: 30383, Stop: 30913, Start Num: 6

Candidate Starts for Miek_44:

(Start: 6 @30383 has 40 MA's), (13, 30473), (14, 30482), (18, 30521), (19, 30530), (23, 30578), (38, 30800), (43, 30848), (45, 30866),

Gene: Moozy_35 Start: 26330, Stop: 26851, Start Num: 6

Candidate Starts for Moozy_35:

(Start: 6 @26330 has 40 MA's), (14, 26423), (34, 26666), (35, 26669), (36, 26681), (37, 26693), (45, 26819),

Gene: Namo_50 Start: 33177, Stop: 33704, Start Num: 6

Candidate Starts for Namo_50:

(2, 33114), (4, 33132), (Start: 6 @33177 has 40 MA's), (13, 33264), (14, 33273), (17, 33288), (20, 33345), (22, 33366), (32, 33483), (35, 33519), (38, 33597), (45, 33663), (46, 33672), (48, 33687),

Gene: OlympicHelado_49 Start: 32860, Stop: 33387, Start Num: 6

Candidate Starts for OlympicHelado_49:

(2, 32797), (4, 32815), (Start: 6 @32860 has 40 MA's), (13, 32947), (14, 32956), (17, 32971), (20, 33028), (22, 33049), (32, 33166), (35, 33202), (38, 33280), (45, 33346), (46, 33355), (48, 33370),

Gene: PherryCruz_35 Start: 26326, Stop: 26847, Start Num: 6

Candidate Starts for PherryCruz_35:

(Start: 6 @26326 has 40 MA's), (14, 26419), (34, 26662), (35, 26665), (36, 26677), (37, 26689), (38, 26746),

Gene: Popy_49 Start: 33490, Stop: 34014, Start Num: 6

Candidate Starts for Popy_49:

(Start: 6 @33490 has 40 MA's), (13, 33577), (14, 33586), (17, 33601), (20, 33658), (22, 33679), (32, 33796), (35, 33832), (38, 33910), (39, 33928), (42, 33952), (45, 33976), (46, 33985),

Gene: Rainydai_44 Start: 30767, Stop: 31297, Start Num: 6

Candidate Starts for Rainydai_44:

(Start: 6 @30767 has 40 MA's), (13, 30857), (14, 30866), (18, 30905), (19, 30914), (23, 30962), (38, 31184), (43, 31232), (45, 31250),

Gene: RavenPuff_35 Start: 26326, Stop: 26847, Start Num: 6

Candidate Starts for RavenPuff_35:

(Start: 6 @26326 has 40 MA's), (14, 26419), (34, 26662), (35, 26665), (36, 26677), (37, 26689), (38, 26746),

Gene: Regigigas_46 Start: 30768, Stop: 31298, Start Num: 6

Candidate Starts for Regigigas_46:

(Start: 6 @30768 has 40 MA's), (13, 30858), (14, 30867), (18, 30906), (19, 30915), (23, 30963), (38, 31185), (43, 31233), (45, 31251),

Gene: Rima_50 Start: 33177, Stop: 33704, Start Num: 6

Candidate Starts for Rima_50:

(2, 33114), (4, 33132), (Start: 6 @33177 has 40 MA's), (13, 33264), (14, 33273), (17, 33288), (20, 33345), (22, 33366), (32, 33483), (35, 33519), (38, 33597), (45, 33663), (46, 33672), (48, 33687),

Gene: RosaAsantewaa_32 Start: 25470, Stop: 25979, Start Num: 7

Candidate Starts for RosaAsantewaa_32:

(1, 25332), (Start: 7 @25470 has 1 MA's), (15, 25569), (24, 25662), (29, 25758), (34, 25806), (38, 25884), (40, 25911), (46, 25959),

Gene: Scap1_35 Start: 26203, Stop: 26724, Start Num: 6

Candidate Starts for Scap1_35:

(Start: 6 @26203 has 40 MA's), (11, 26242), (14, 26296), (35, 26542), (36, 26554),

Gene: SendItCS_43 Start: 30371, Stop: 30901, Start Num: 6

Candidate Starts for SendItCS_43:

(Start: 6 @30371 has 40 MA's), (13, 30461), (14, 30470), (18, 30509), (19, 30518), (23, 30566), (38, 30788), (43, 30836), (45, 30854),

Gene: SheRa_36 Start: 26372, Stop: 26893, Start Num: 6

Candidate Starts for SheRa_36:

(Start: 6 @26372 has 40 MA's), (14, 26465), (34, 26708), (35, 26711), (36, 26723), (37, 26735), (45, 26861),

Gene: Soshi_48 Start: 33109, Stop: 33633, Start Num: 6

Candidate Starts for Soshi_48:

(2, 33046), (4, 33064), (Start: 6 @33109 has 40 MA's), (13, 33196), (14, 33205), (17, 33220), (20, 33277), (22, 33298), (32, 33415), (35, 33451), (38, 33529), (39, 33547), (42, 33571), (45, 33595), (46, 33604),

Gene: Spectropatronm_49 Start: 32839, Stop: 33366, Start Num: 6

Candidate Starts for Spectropatronm_49:

(2, 32776), (4, 32794), (Start: 6 @32839 has 40 MA's), (13, 32926), (14, 32935), (17, 32950), (20, 33007), (22, 33028), (32, 33145), (35, 33181), (38, 33259), (45, 33325), (46, 33334), (48, 33349),

Gene: TaidaOne_49 Start: 33344, Stop: 33871, Start Num: 6

Candidate Starts for TaidaOne_49:

(2, 33281), (Start: 6 @33344 has 40 MA's), (13, 33431), (14, 33440), (17, 33455), (20, 33512), (22, 33533), (32, 33650), (35, 33686), (38, 33764), (45, 33830), (46, 33839), (48, 33854),

Gene: Thiqqums_45 Start: 30767, Stop: 31297, Start Num: 6

Candidate Starts for Thiqqums_45:

(Start: 6 @30767 has 40 MA's), (13, 30857), (14, 30866), (18, 30905), (19, 30914), (23, 30962), (38, 31184), (43, 31232), (45, 31250),

Gene: TieDye_48 Start: 32432, Stop: 32959, Start Num: 6

Candidate Starts for TieDye_48:

(2, 32369), (4, 32387), (Start: 6 @32432 has 40 MA's), (13, 32519), (14, 32528), (17, 32543), (20, 32600), (22, 32621), (32, 32738), (35, 32774), (38, 32852), (45, 32918), (46, 32927), (48, 32942),

Gene: TonyStarch_48 Start: 32553, Stop: 33080, Start Num: 6

Candidate Starts for TonyStarch_48:

(2, 32490), (4, 32508), (Start: 6 @32553 has 40 MA's), (13, 32640), (14, 32649), (17, 32664), (20, 32721), (22, 32742), (32, 32859), (35, 32895), (38, 32973), (45, 33039), (46, 33048), (48, 33063),